



Performance Data Sheet

VSC5542ENA

General Information

Model	VSC5542ENA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	16200	15300					
	Watts	2080	2410					
	Amps	9.87	10.6					
	Lb/h	208	204					
-10	Btu/h	17400	16400	15200				
	Watts	2080	2390	2770				
	Amps	10.0	10.7	11.7				
	Lb/h	222	219	211				
-5	Btu/h	19000	18000	16800	15200			
	Watts	2080	2370	2730	3180			
	Amps	10.1	10.8	11.8	13.2			
	Lb/h	241	238	232	219			
0	Btu/h	21000	19900	18700	17200	15200		
	Watts	2080	2360	2700	3120	3640		
	Amps	10.3	10.9	11.8	13.2	14.9		
	Lb/h	265	262	256	246	229		
5	Btu/h	23400	22200	21000	19400	17500		
	Watts	2080	2360	2680	3080	3560		
	Amps	10.3	10.9	11.9	13.2	14.9		
	Lb/h	294	291	286	276	261		
10	Btu/h	26200	24900	23600	22000	20100	17800	14900
	Watts	2070	2350	2660	3040	3500	4070	4760
	Amps	10.4	11.0	11.9	13.2	14.9	16.9	19.4
	Lb/h	327	323	319	310	297	277	248
15	Btu/h	29300	27900	26500	24800	23000	20700	17800
	Watts	2070	2340	2650	3010	3450	3980	4640
	Amps	10.4	11.0	11.9	13.2	14.8	16.9	19.3
	Lb/h	364	360	355	348	336	318	292
20	Btu/h	32800	31200	29700	28000	26000	23700	21000
	Watts	2050	2330	2640	2990	3410	3920	4540
	Amps	10.5	11.0	11.9	13.2	14.8	16.8	19.2
	Lb/h	405	400	395	389	378	362	339

25	Btu/h	36700	34900	33200	31300	29300	27000	24300
	Watts	2020	2320	2630	2970	3380	3860	4450
	Amps	10.5	11.0	11.9	13.2	14.8	16.8	19.2
	Lb/h	450	444	439	432	423	409	388
30	Btu/h	40900	38800	36900	35000	32900	30500	27800
	Watts	1990	2300	2610	2960	3350	3820	4380
	Amps	10.5	11.0	11.9	13.2	14.8	16.8	19.1
	Lb/h	499	491	485	479	470	458	439
35	Btu/h	45300	43100	40900	38800	36600	34200	31400
	Watts	1940	2270	2600	2940	3330	3790	4330
	Amps	10.5	11.0	11.9	13.2	14.8	16.7	19.1
	Lb/h	550	542	535	528	520	509	492
40	Btu/h	50100	47600	45200	42900	40600	38000	35200
	Watts	1880	2230	2580	2930	3320	3770	4290
	Amps	10.4	11.0	11.9	13.2	14.8	16.7	19.1
	Lb/h	605	595	587	580	572	562	547
45	Btu/h	55200	52300	49700	47200	44700	42000	39100
	Watts	1810	2190	2550	2920	3310	3750	4260
	Amps	10.4	11.0	11.9	13.2	14.8	16.8	19.1
	Lb/h	663	651	641	634	626	617	604
50	Btu/h	60500	57300	54400	51700	48900	46100	43100
	Watts	1710	2130	2510	2900	3300	3740	4240
	Amps	10.3	11.0	11.9	13.2	14.8	16.8	19.2
	Lb/h	724	709	698	690	682	673	661
55	Btu/h	66100	62600	59300	56300	53300	50400	47200
	Watts	1600	2050	2470	2870	3290	3730	4230
	Amps	10.3	10.9	11.9	13.2	14.8	16.8	19.2
	Lb/h	787	769	757	748	740	731	720

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.718188E+04	-8.129099E+02	1.615007E+01	4.069760E+02
C2	9.017566E+02	-4.436251E+01	3.616567E-02	1.038567E+01
C3	-4.327720E+02	6.937151E+01	-1.756591E-01	-5.263760E+00
C4	1.217291E+01	-7.454361E-01	-1.229057E-03	1.292177E-01
C5	-9.385594E+00	1.214280E+00	3.178271E-05	-1.205504E-01
C6	4.465045E+00	-7.083628E-01	1.066069E-03	6.806541E-02
C7	-1.879970E-02	-2.204133E-03	2.049203E-06	-2.812012E-04
C8	-5.322165E-02	8.826165E-03	9.980989E-06	-4.654283E-04
C9	4.554794E-02	-8.224408E-03	-3.186748E-06	7.072100E-04
C10	-1.985206E-02	3.664077E-03	2.599669E-06	-3.047551E-04

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature